- 80. (NEW) An isolated and purified polypeptide comprising a contiguous span of at least 6 amino acids of SEQ ID NO:5, wherein said contiguous span comprises an amino acid selected from the group consisting of:
 - a) an asparagine at an amino acid position corresponding to position 1694 of SEQ ID NO:5;
 - b) a valine at an amino acid position corresponding to position 1854 of SEQ ID NO:5;
 - an asparagine at an amino acid position corresponding to position 1967 of SEQ ID NO:5;
 - d) a glutamic acid at an amino acid position corresponding to position 2017 of SEQ ID NO:5; and
 - e) an alanine at an amino acid position corresponding to position 2050 of SEQ ID NO:5.
- 81. (NEW) The polypeptide of claim 80, wherein said contiguous span comprises an asparagine at an amino acid position corresponding to position 1694 of SEQ ID NO:5.
- 82. (NEW) The polypeptide of claim 80, wherein said contiguous span comprises a valine at an amino acid position corresponding to position 1854 of SEQ ID NO:5.
- 83. (NEW) The polypeptide of claim 80, wherein said contiguous span comprises an asparagine at an amino acid position corresponding to position 1967 of SEQ ID NO:5.
- 84. (NEW) The polypeptide of claim 80, wherein said contiguous span comprises a glutamic acid at an amino acid position corresponding to position 2017 of SEQ ID NO:5.
- 85. (NEW) The polypeptide of claim 80, wherein said contiguous span comprises an alanine at an amino acid position corresponding to position SEQ ID NO:5.

- 86. (NEW) A composition comprising an isolated and purified polypeptide, wherein said polypeptide has an amino acid sequence comprising at least 10 contiguous amino acids of SEQ ID NO:5 spanning position(s) selected from the group consisting of:
 - a) 1 to 200;
 - b) 201 to 400;
 - c) 401 to 600;
 - d) 601 to 800;
 - e) 801 to 1000;
 - f) 1001 to 1200;
 - g) 1201 to 1400;
 - h) 1401 to 1629;
 - i) 1694, wherein the amino acid at position 1694 of SEQ ID NO:5 is an asparagine;
 - j) 1854, wherein the amino acid at position 1854 of SEQ ID NO:5 is a valine;
 - k) 1967, wherein the amino acid at position 1967 of SEQ ID NO:5 is an asparagine;
 - 1) 2017, wherein the amino acid at position 2017 of SEQ ID NO:5 is a glutamic acid; and
 - m) 2050, wherein the amino acid at position 2050 of SEQ ID NO:5 is an alanine.
 - 87. (NEW) The composition of claim 86, wherein said position(s) are 1 to 200.
 - 88. (NEW) The composition of claim 86, wherein said position(s) are 201 to 400.
 - 89. (NEW) The composition of claim 86, wherein said position(s) are 401 to 600.

- 90. (NEW) The composition of claim 86, wherein said position(s) are 601 to 800.
- 91. (NEW) The composition of claim 86, wherein said position(s) are 801 to 1000.
- 92. (NEW) The composition of claim 86, wherein said position(s) are 1001 to 1200.
- 93. (NEW) The composition of claim 86, wherein said position(s) are 1201 to 1400.
- 94. (NEW) The composition of claim 86, wherein said position(s) are 1401 to 1629.
- 95. (NEW) The composition of claim 86, wherein said position(s) is 1694.
- 96. (NEW) The composition of claim 86, wherein said position(s) is 1854.
- 97. (NEW) The composition of claim 86, wherein said position(s) is 1967.
- 98. (NEW) The composition of claim 86, wherein said position(s) is 2017
- 99. (NEW) The composition of claim 86, wherein said position(s) is 2050.
- 100. (NEW) The composition of claim 86, wherein said polypeptide is at least 20 amino acids in length.
- 101. (NEW) The composition of claim 86, wherein said polypeptide is at least 50 amino acids in length.
- 102. (NEW) The composition of claim 86, wherein said polypeptide is at least 100 amino acids in length.
 - 103. (NEW) The polypeptide of claim 79, wherein said polypeptide is recombinant.
 - 104. (NEW) The polypeptide of claim 86, wherein said polypeptide is recombinant.
- 105. (NEW) The composition of claim 86, further comprising a physiologically acceptable carrier.

- 106. (NEW) A method of making the polypeptide of claim 79 comprising the steps of:
 - a) obtaining a cell that expresses said polypeptide;
 - b) growing said cell under conditions suitable to produce said polypeptide; and
 - c) isolating and purifying said polypeptide produced by said cell.
- 107. (NEW) The method of claim 106, wherein said cell is prokaryotic.
- 108. (NEW) The method of claim 106, wherein said cell is eukaryotic.
- 109. (NEW) A method of making the polypeptide of claim 86 comprising the steps of:
 - a) obtaining a cell that expresses said polypeptide;
 - b) growing said cell under conditions suitable to produce said polypeptide; and isolating and purifying said polypeptide produced by said cell.
- 110. (NEW) The method of claim 109, wherein said cell is prokaryotic.
- 111. (NEW) The method of claim 109, wherein said cell is eukaryotic.
- 112. (NEW) An isolated or purified antibody that selectively binds to an epitope-containing fragment of the polypeptide of claim 79, wherein said epitope comprises at least one amino acid corresponding to an amino acid shown at position 1 to 1629 of SEQ ID NO:5.
- 113. (NEW) The antibody of claim 112, wherein said epitope comprises at least one amino acid corresponding to an amino acid shown at position 1 to 200 of SEQ ID NO:5.
- 114. (NEW) The antibody of claim 112, wherein said epitope comprises at least one amino acid corresponding to an amino acid shown at position 201 to 400 of SEQ ID NO:5.
- 115. (NEW) The antibody of claim 112, wherein said epitope comprises at least one amino acid corresponding to an amino acid shown at position 401 to 600 of SEQ ID NO:5.

- 116. (NEW) The antibody of claim 112, wherein said epitope comprises at least one amino acid corresponding to an amino acid shown at position 601 to 800 of SEQ ID NO:5.
- 117. (NEW) The antibody of claim 112, wherein said epitope comprises at least one amino acid corresponding to an amino acid shown at position 801 to 1000 of SEQ ID NO:5.
- 118. (NEW) The antibody of claim 112, wherein said epitope comprises at least one amino acid corresponding to an amino acid shown at position 1001 to 1200 of SEQ ID NO:5.
- 119. (NEW) The antibody of claim 112, wherein said epitope comprises at least one amino acid corresponding to an amino acid shown at position 1201 to 1400 of SEQ ID NO:5.
- 120. (NEW) The antibody of claim 112, wherein said epitope comprises at least one amino acid corresponding to an amino acid shown at position 1401 to 1629 of SEQ ID NO:5.
- 121. (NEW) An isolated or purified antibody that selectively binds to an epitopecontaining fragment of the polypeptide of claim 80, wherein said epitope comprises an amino acid selected from the group consisting of:
 - a) an asparagine at an amino acid position corresponding to position 1694 of SEQ ID NO:5;
 - b) a valine at an amino acid position corresponding to position 1854 of SEQ ID NO:5;
 - an asparagine at an amino acid position corresponding to position 1967 of SEQ ID NO:5;
 - a glutamic acid at an amino acid position corresponding to position 2017 of SEQ ID NO:5; and
 - e) an alanine at an amino acid position corresponding to position 2050 of SEQ ID NO:5.
- 122. (NEW) The antibody of claim 121, wherein said epitope comprises an asparagine at an amino acid position corresponding to position 1694 of SEQ ID NO:5.

- 123. (NEW) The antibody of claim 121, wherein said epitope comprises comprises a valine at an amino acid position corresponding to position 1854 of SEQ ID NO:5.
- 124. (NEW) The antibody of claim 121, wherein said epitope comprises an aparagine at an amino acid position corresponding to position 1967 of SEQ ID NO:5.
- 125. (NEW) The antibody of claim 121, wherein said epitope comprises a glutamic acid at an amino acid position corresponding to position 2017 of SEQ ID NO:5.
- 126. (NEW) The antibody of claim 121, wherein said epitope comprises an alanine at an amino acid position corresponding to position SEQ ID NO:5.